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Model Number

VOS412-BIS-60-WH-F119

Sheet inspection sensor for monitoring print by comparing stored images or barcode evaluation, right angle version

Features

- Automatic learning of the reference image
- Automatic search for optimum image section
- Integrated error image memory
- Integrated illumination
- Reliable detection at object speeds up to 4 m/s

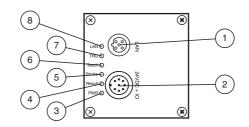
Function

The sheet identification sensor from Pepperl+Fuchs enables fast and simple monitoring of the correct sheet sequence in collating, folding and binding machines. Sheets can be monitored either by using the image comparison method or reading in barcodes printed on the sheets.

The device can be operated locally, as a stand-alone unit or in a network where several sensors are connected together. The sensor includes a camera, illumination unit and evaluating computer with digital input and output signals as well as a network interface. Typical areas of application are:

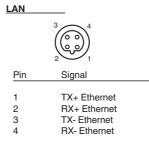
- Printing machines
- Folding machines
- Tying machines

Indicating / Operating means



1	Socket LAN	
2	Plug 24VDC + IO	
3	Power	green
4	Result	green
5	Stobe	yellow
6	Teach	yellow
7	Trigger	yellow
8	LAN	yellow

Electrical connection



7 6 3 3					
Pin	Signal				
1 2 3 4 5 6 7 8	IN Encoder +UB OUT Result OUT Strobe IN Teach IN TRG GND OUT Mode				

24 V DC + I/O

Technical data General specifications Integrated LED lightning (white) Light type Object size 25 mm x 25 mm Read distance 60 mm Depth of focus ± 5 mm 75 mm x 45 mm Reading field **Evaluation frequency** 7 Hz Target velocity triggered ≤ 3 m/s Indicators/operating means LED green: Ready for operation Operating display **Electrical specifications** 24 V DC ± 20 % Operating voltage U_{B} No-load supply current max. 250 mA I_0 Power consumption P_0 6 W Interface 1 Interface type Ethernet Protocol TCP/IP 100 MBit/s Transfer rate Cable length max. 30 m Input to be applied externally 24 V \pm 15% PELV Input voltage

Number/Type

Input current approx. 3.5 mA at 24 V DC

Cable length max. 30 m

Output

Number/Type 3 electronic outputs, PNP optically decoupled

Switching type PNP optically decoupled, short-circuit/overload protected

Switching voltage 24 V

Switching current max. 100 mA each output

Cable length max. 30 m

Ambient conditions

0 ... 45 °C (32 ... 113 °F) Ambient temperature Storage temperature -20 ... 60 °C (-4 ... 140 °F)

Mechanical specifications

Protection degree IP65

Connection M12 connector, 8-pin,

4-pin M12 socket

Material

Housing powder coated diecast zinc

Optical face glass pane Installation 2 x Threading M5 approx. 730 g

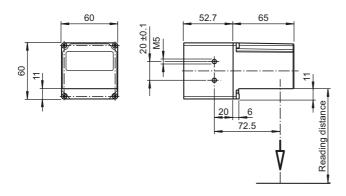
Compliance with standards and directi-

ves

Standard conformity

Standards EN 61326-1

Dimensions



Accessories

Male cordset, M12, 4-pin, field attachable

V1SD-G-2M-PUR-ABG-V45X-G

Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e

V1SD-G-2M-PUR-ABG-V45-G

Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e

V19-G-ABG-PG9

Cable socket, M12, 8-pin, shielded, non pre-wired

V19-G-2M-PUR-ABG

Cable socket, M12, 8-pin, shielded, PUR cable

BIS-VISUALIZER

User-Interface "BIS Visualiser" for image display and basic parameters of the BIS

Other suitable accessories can be found at www.pepperl-fuchs.com